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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/994,565	11/27/2001	Jong-Chul Lee	678-740 (P9839)	8742

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EXAMINER	
GOOD JOHNSON, MOTILEWA	
ART UNIT	**PAPER NUMBER**
2672	

DATE MAILED: 01/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/994,565	LEE, JONG-CHUL	
	Examiner	Art Unit	
	Motilewa A. Good-Johnson	2672	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *30 August 2004*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-5* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-5* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to the following communication: Application, filed 11/27/2001; Amendment A, filed 03/12/2004; Amendment filed 08/30/2004.

This action is made final.

2. Claims 1-5 are pending in this application. Claim 1 is an independent claim.

3. The present title of this application is "Method for Changing Display Direction in a Portable Telephone" (as originally filed)

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Charlier, U.S. Patent Number 6,334,063, "Electronic Device with Auto-Positioning Virtual Image Display and Associated Method" in view of Reddy et al, U.S. Patent Number 6,208,325, "Image Rotation for Video Displays".

Regarding claim 1, Charlier discloses a method for changing a display direction of a display for displaying an image in a portable telephone, comprising the steps of: displaying the image in a predetermined display direction (col. 3, lines 55-58);

determining whether a display direction change mode is selected, while displaying the image in a predetermined direction (col. 4, lines 7-17); continuing to display the image in the predetermined direction for a predetermined time period if it is determined that the display direction change mode is selected (col. 4, lines 22-38); changing a value of at least one display direction selection register for the predetermined time period (col. 4, lines 22-38)

However, it is noted that Charlier fails to disclose simultaneously reversing both an output direction of segments and an output direction of columns according to the changed value of the at least one display direction selection register.

Reddy discloses simultaneously reversing both an output direction of segments and an output direction of columns according to the changed value of the at least one display direction selection register. (col. 6, lines 56-65, and figures 5-7)

It would have bee obvious to one of ordinary skill in the art at the time of the invention to include in the orientation display mode as disclosed in Charlier, the change of the register values at a predetermined time period with a reversal of the segments and columns as disclosed in Reddy, to allow for efficient memory use and to further reduce orientation time of an image.

6. Claims 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Charlier in view of Reddy as applied to claim 1 above, and further in view of Lands et al., U.S. Patent Number 6,411,828 B1, "Communications Devices and Methods that

Operate According to Communications Device Orientations Determined by Reference to Gravitational Sensors", 06/25/2002, filed 03/19/1999.

Regarding claim 2, it is noted that Charlier and Reddy both fail to disclose a user selects the display direction change mode by pressing a key.

Charlier discloses changing an orientation, i.e. mode, of an image on a display of a portable electronic device and Reddy further discloses simultaneously reversing the segments and columns of an image to rotate the view of an image on a display

Lands discloses a communication device which operates in a mode selected based on an orientation of the device from a gravitational sensor and further discloses allowing a user to push a button, i.e. press a key, to sense the direction of the gravitational field and begin operations mode to establish a orientation of the communication device, col. 5, lines 1-14.

It would have been obvious to one of ordinary skill in the art at the time of the invention to include in the portable device disclosed in Charlier and the reversal of the segments for rotation of the display as disclosed in Reddy, to include a button, or key, to allow a user to select mode of operation at a user desired time, to make the communication device user friendly.

Regarding claim 3, however it is noted that both Charlier and Reddy both fail to disclose a user selects the display direction change mode by connecting an earphone jack to the portable telephone.

Lands discloses a communication device which operates in a mode selected based on an orientation of the device from a gravitational sensor and further allow for a mode of operation of the wireless to be selected based upon a device connected to the communications device, and separated from the communications device to produce a mode of operation, col. 2, lines 21-44.

It would have been obvious to one of ordinary skill of art at the time of the invention to include in the display operation mode as disclosed in Charlier and the reversal of the segments and columns for the rotation of the display as disclosed in Reddy, external devices connected to a communication device to provide a mode of operation, to allow a user to be hands free to perform other tasks during calls, as disclosed in Lands.

Regarding claim 4, Lands discloses the display direction change mode is determined by inversion of the portable telephone (horizontal and vertical orientations, which the Examiner interprets as inversions of the portable telephone, provide mode of operation for the communications device, col. 4, lines 51-60)

Regarding claim 5, Charlier discloses inversion of the portable telephone is sensed through a gravity sensor (col. 4, lines 7-10, gravity switch senses the orientation, which Examiner interprets as a gravity sensor). Lands also discloses the communications device senses orientation through a gravitational sensor (col. 4, lines 25-36)

Response to Arguments

7. Applicant's arguments, see page 3-5 of remarks, filed 08/30/2004, with respect to the rejection(s)of claim(s) 1-5 under Hinckley have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Charlier et al, U.S. Patent Number 6,334,063 in view of Reddy et al., U.S. Patent Number 6,208,325 and further in view of Lands et al., U.S. Patent Number 6,411,828.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Motilewa A. Good-Johnson whose telephone number is (703) 305-3939. The examiner can normally be reached on Monday, Tuesday and Thursday 9:00 AM 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi can be reached on (703) 305-4713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Motilewa A. Good-Johnson
Examiner
Art Unit 2672

mgj

JEFFERY BRIER
PRIMARY EXAMINER